

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A single transceiver system for utilizing a plurality of different communication standards, comprising:

a single transceiver selectably configurable to a plurality of different communication standards;

a memory configured to store information received by the single transceiver utilizing a first communication standard, and configured to provide the information to the single transceiver for transmission according to a second communication standard; and

a plurality of baseband sub-systems coupled to the signal transceiver, each of the plurality of baseband sub-systems capable of processing one of the plurality of communication standards, and wherein each of the baseband sub-systems share memory, and wherein the baseband sub-systems optimize a frequency or duration of transmissions or receptions in order to at least one of minimize a radio utilization, minimize a spectrum utilization, maximize a link throughput, and optimize a system parameter.

2. (Canceled)

3. (Previously Presented) The system as recited in claim 1, wherein the single transceiver demodulates received signals into information bits.

4. (Canceled)

5. (Previously Presented) The system as recited in claim 3, wherein the single transceiver re-modulates the information bits into signals utilizing the second communication standard.

6. (Canceled)

7. (Previously Presented) The system as recited in claim 1, wherein the single transceiver utilizes the plurality of different communication standards by time multiplexing therebetween.

8. (Original) The system as recited in claim 1, wherein the single transceiver is coupled to an antenna sub-system capable of communicating utilizing the plurality of different communication standards.

9. (Canceled)

10. (Previously Presented) The system as recited in claim 1, wherein the baseband sub-systems are implemented utilizing a plurality of discrete processors.

11. (Currently Amended) ~~The system as recited in claim 1, wherein the baseband sub-systems are~~ A single transceiver system for utilizing a plurality of different communication standards, comprising:

a single transceiver selectably configurable to a plurality of different communication standards;

a memory configured to store information received by the single transceiver utilizing a first communication standard, and configured to provide the information to the single transceiver for transmission according to a second communication standard; and

a plurality of baseband sub-systems implemented utilizing a single integrated processor and coupled to the signal transceiver, each of the plurality of baseband sub-systems capable of processing one of the plurality of communication standards, and wherein each of the baseband sub-systems share memory.

12. (Previously Presented) The system as recited in claim 1, wherein at least one of a time and a duration of access to the single transceiver by the baseband sub-systems is tracked.

13. (Original) The system as recited in claim 12, wherein each of the baseband sub-systems access the single transceiver during assigned time intervals.

14. (Canceled)

15. (Canceled)

16. (Previously Presented) The system as recited in claim 1, wherein the baseband sub-systems at least one of translate, code, and decode information bits so as to make the information bits compatible with the plurality of different communication standards.

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Previously Presented) A system, comprising:
a single transceiver configured to time division multiplex between a plurality of communication standards;
a memory;

a baseband processor coupled to the single transceiver and configured to process a signal received by the single transceiver during a first time period according to a first communication standard and store received information in the memory, and further configured to process the received information according to a second communication standard for transmission by the single transceiver during a second time period distinct from the first time period, wherein the baseband processor is further configured to configure the single transceiver for operation according to the first communication standard prior to the first time period and configure the single transceiver for operation according to the second communication standard prior to the second time period.

21. (Canceled)

22. (Previously Presented) The system of claim 20, wherein the baseband processor comprises a multiple standard baseband processor.

23. (Previously Presented) The system of claim 20, wherein the baseband processor comprises:

a first baseband processor configured to operate in accordance with the first communication standard; and

a second baseband processor configured to operate in accordance with the second communication standard.

24. (Previously Presented) The system of claim 20, wherein the baseband processor is further configured to process a signal received by the single transceiver during a third time period according to the first communication standard and store received information in the memory, and wherein the baseband processor processes the received information from the first and third time periods according to the second communication standard for transmission by the single transceiver during the second time period.

25. (Previously Presented) The system of claim 20, wherein the first communication standard comprises a wireless telephone communication standard and the second communication standard comprises a communication standard selected from a list comprising a wireless LAN communication standard, a Bluetooth communication standard, and a HomeRF communication standard.

26. (Previously Presented) The system of claim 20, wherein the baseband processor is further configured to process a signal received by the single transceiver during a third time period according to the second communication standard and store received information in the memory, and further configured to process the received information according to the first communication standard for transmission by the single transceiver during a fourth time period.